

Title (en)

REDUCING BIAS IN AN ACCELEROMETER VIA CURRENT ADJUSTMENT

Title (de)

BIAS-REDUZIERUNG IN EINEM BESCHLEUNIGUNGSSENSOR DURCH STROMEINSTELLUNG

Title (fr)

RÉDUCTION DU DÉCALAGE DANS UN CAPTEUR D'ACCÉLÉRATION PAR AJUSTEMENT DE COURANT

Publication

EP 3255439 A1 20171213 (EN)

Application

EP 17158787 A 20170301

Priority

US 201615176704 A 20160608

Abstract (en)

An accelerometer includes a first stator, a second stator, a proof mass assembly disposed between the first stator and second stator, and a controller. The first stator includes a first magnet and the second stator includes a second magnet. The proof mass assembly includes a first coil configured to receive a first amount of current and a second coil configured to receive a second amount of current. The controller is configured to distribute the first amount of current to the first coil and the second amount of current to the second coil. The first amount of current is different than the second amount of current.

IPC 8 full level

G01P 15/09 (2006.01); **G01P 15/13** (2006.01)

CPC (source: CN EP US)

G01P 15/125 (2013.01 - CN US); **G01P 15/132** (2013.01 - CN EP US)

Citation (search report)

- [A] WO 9707405 A1 19970227 - ALLIED SIGNAL INC [US]
- [A] US 5220831 A 19930622 - LEE WILLIAM F [US]
- [A] EP 2075548 A1 20090701 - ASAHI KASEI MICRODEVICES CORP [JP]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3255439 A1 20171213; **EP 3255439 B1 20180905**; CN 107478863 A 20171215; CN 107478863 B 20210618; JP 2017219535 A 20171214; US 10180445 B2 20190115; US 2017356927 A1 20171214

DOCDB simple family (application)

EP 17158787 A 20170301; CN 201611121571 A 20161208; JP 2017018126 A 20170203; US 201615176704 A 20160608